

**ABSTRACT**

A household security system provides multiple ultrasonic sensors installed at different positions inside the house to monitor the surrounding interior status, wherein initially monitored statuses are used as the default values for comparing to the subsequent monitored data. If the comparing result indicates that the surrounding status has changed, a signal is transmitted to a control unit that will activate an image capturing device to collect the surrounding pictures. The captured images are transmitted to a house-owner's cell phone via a mobile telecommunication network. Based on the displayed images, the house-owner is able to determine whether the alarm should be activated or the police should be informed.